Databases

Describe the ANSI-SPARC architecture for managing data, explaining how it enables \textit{data independence} to be achieved. \hspace{1cm} [6 marks]

Outline the CODASYL/DBTG proposals for network database management, showing how they relate to the ANSI-SPARC architecture. \hspace{1cm} [8 marks]

In what ways do the DBTG proposals compromise data independence? \hspace{1cm} [3 marks]

What provision is made for data security in them? \hspace{1cm} [3 marks]